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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/069,954	10/069,954 07/01/2002		Masatoshi Kanaya	020287	4537	
23850	7590	08/22/2003				
	,	STERMAN & HA	EXAMINER			
1725 K STREET, NW SUITE 1000				PARSLEY, DAVID J		
WASHING	GTON, DC	20006		ART UNIT PAPER NUMBER		
				3643		
			DATE MAILED: 08/22/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
•	10/069,954	KANAYA ET AL.					
Office Action Summary	Examiner	Art Unit					
	David J Parsley	3643					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 1.136(a). In no event, however, may a reply be tireply within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDONE	mely filed /s will be considered timely. It the mailing date of this communication. ED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on _	·						
2a) ☐ This action is FINAL . 2b) ☑ 1	This action is non-final.						
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	wance except for formal matters, per Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 453 O.G. 213.					
4)⊠ Claim(s) 1,2,5 and 6 is/are pending in the ap	oplication.						
4a) Of the above claim(s) is/are withdr	rawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,5 and 6</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examir	ner.						
10)⊠ The drawing(s) filed on <u>07 February 2003</u> is/a	re: a)⊠ accepted or b)☐ objected to	by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on		oved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the E	Examiner.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. § 119(a	ı)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority docume	nts have been received.						
2. Certified copies of the priority documer	nts have been received in Applicati	on No					
 3. Copies of the certified copies of the pri application from the International B * See the attached detailed Office action for a lis 	Bureau (PCT Rule 17.2(a)).	•					
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. § 119(e	e) (to a provisional application).					
a) The translation of the foreign language p							
Attachment(s)	•						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Patent and Trademark Office							

Detailed Action

Amendment

1. This office action is in response to applicant's amendment (paper no. 11) dated 7-2-03 and this action is non-final.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 3,067,328 to Harrison or JP Patent No. 1-202241 to Hayata et al.

Referring to claim 1, Harrison and Hayata et al. disclose a method of detecting and removing unstripped residual shell left on a shellfish, comprising irradiating light at a peak wavelength of 254 nm onto stripped shellfish after finishing a shell-stripping work on the shellfish, and on the basis of information on the intensity of fluorescent light emitted from the shellfish, determining if there is residual shell on the stripped shellfish and subsequently removing any residual shell – see for example columns 1-3 of Harrison and figures 1-14 and pages 1-6 of Hayata et al. where it is inherent that the wavelength is about 254 nm since the

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wavelength less than 352 nm.

Hayata et al. device uses an x-ray device and x-rays are commonly small in wavelength less than

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352 nm.

Referring to claim 5, Harrison and Hayata et al. disclose an apparatus for detecting and removing unstripped residual shell left on shellfish, the apparatus comprising a means – see column 2 of Harrison and – at 32 of Hayata et al. for irradiating light of at a peak wavelength of 254 nm onto stripped shellfish – see column 2 of Harrison and – at 14 of Hayata after finishing the shell-stripping work on the shellfish, detection means – see column 2 of Harrison and – at 36-44 of Hayata for detecting a fluorescent light emitted from the shellfish, a means – see columns 2-3 of Harrison and – at 52-56 of Hayata for determining if there is left a residual shell of the shellfish on the stripped shellfish on the basis of information obtained from the detection means, means – see columns 2-3 of Harrison and – at 59 of Hayata for removing any residual shell on the basis of information from the determining means, – see for example columns 1-3 of Harrison and figures 1-14 and pages 1-6 of Hayata where it is inherent that the wavelength is under

Claim Rejections - 35 USC § 103

352nm since the Hayata et al. device uses an x-ray device and x-rays are commonly small in

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP Patent No. 1-105144 to Hayata et al. in view of Harrison

Referring to claim 1, Hayata et al. discloses a method of detecting and removing unstripped residual shell left on a shellfish, comprising irradiating light of specific wave-range onto stripped shellfish after finishing a shell-stripping work on the shellfish, and on the basis of information on the intensity of fluorescent light emitted from the shellfish, determining if there is residual shell on the stripped shellfish and subsequently removing any residual shell, - see for example figures 1-14 and pages 1-6. Hayata does not disclose the peak wavelength is 254 nm. Harrison does disclose the peak wavelength is 254 nm – see for example column 2. Therefore it would have been obvious to one of ordinary skill in the art to take the method of Hayata and add the peak wavelength of 254 nm of Harrison, so as to allow for more accurate inspection of the shellfish.

Referring to claim 5, Hayata et al. discloses an apparatus for detecting and removing unstripped residual shell left on shellfish, the apparatus comprising a means – 2,4 for irradiating light of specific wave-range onto stripped shellfish after finishing the shell-stripping work on the shellfish, detection means – 8,10 for detecting a fluorescent light emitted from the shellfish, a means – 10,14 for determining if there is left a residual shell of the shellfish on the stripped shellfish on the basis of information obtained from the detection means, means – at 16,18 for removing any residual shell on the basis of information from the determining means – see for example figures 1-14 and pages 1-6. Hayata does not disclose the peak wavelength is 254 nm. Harrison does disclose the peak wavelength is 254 nm – see for example column 2. Therefore it would have been obvious to one of ordinary skill in the art to take the method of Hayata and add

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the peak wavelength of 254 nm of Harrison, so as to allow for more accurate inspection of the shellfish.

Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayata et al. '241in view of U.S. Patent No. 5,902,177 to Tessier et al.

Referring to claim 2, Hayata et al. discloses a method of detecting and removing a stripped shellfish carrying therewith unstripped residual shell, comprising irradiating a light specific wave-range onto the stripped shellfish after finishing a shell-stripping work on the shellfish, generate a fluorescent light from the stripped shellfish, taking an image of the stripped shellfish, and determining if there is residual shell left on the stripped shellfish on the basis of information to be derived from the image taken up of shellfish on the intensity of the fluorescent light generated from the stripped shellfish, and removing the stripped shellfish if there is any residual shell, wherein the peak wavelength of the irradiated light is less than 400 nm – see for example figures 1-14 and pages 1-6 where it is inherent that the wavelength is 254 nm since the Hayata et al. device uses an x-ray device and x-rays are commonly small in wavelength less than 352 nm.

Hayata et al. does not disclose the image is taken by a CCD camera. Tessier et al. does disclose the image is taken by a CCD camera – see for example columns 10-15. Therefore it would have been obvious to one of ordinary skill in the art to take the method of detecting shellfish with unstripped shell of Hayata et al. and add the image taken by a CCD camera, so as to make the method more effective and accurate in that the light can be accurately read with an image being quickly produced.

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Referring to claim 6, Hayata et al. discloses an apparatus for detecting and removing a stripped shellfish carrying therewith unstripped residual shell, the apparatus comprising means—32 for irradiating a light of specific wave-range onto the stripped shellfish—14 after finishing a shell-stripping work on the shellfish, thereby enabling fluorescent light to be generated from the stripped shellfish, an image recording device—at 36 disposed to face the stripped shellfish, means—52-56 for determining if there is a residual shell left on the stripped shellfish on the basis of information on the intensity of fluorescent light that can be obtained from the image taken by the image recording device, and means—59 for removing the stripped shellfish if there is any residual shell on the basis of information obtained form the determining means, wherein the peak wavelength of the irradiating light is 254 nm—see for example figures 1-14 and the pages 1-6 where it is inherent that the wavelength is 254 nm since the Hayata et al. device uses an x-ray device and x-rays are commonly small in wavelength.

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Hayata et al. further does not disclose the image is taken by a CCD camera. Tessier et al. does disclose the image is taken by a CCD camera – see for example columns 10-15. Therefore it would have been obvious to one of ordinary skill in the art to take the method of detecting shellfish with unstripped shell of Hayata et al. and add the image taken by a CCD camera, so as to make the method more effective and accurate in that the light can be accurately read with an image being quickly produced.

Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayata et al. '144 in view of Harrison and Tessier et al.

Referring to claim 2, Hayata et al. discloses a method of detecting and removing unstripped residual shell left on a shellfish, comprising irradiating light of specific wave-range

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onto stripped shellfish after finishing a shell-stripping work on the shellfish, and on the basis of information on the intensity of fluorescent light emitted from the shellfish, determining if there is residual shell on the stripped shellfish and subsequently removing any residual shell, - see for example figures 1-14 and pages 1-6.

Hayata does not disclose the peak wavelength is 254 nm. Harrison does disclose the peak wavelength is 254 nm – see for example column 2. Therefore it would have been obvious to one of ordinary skill in the art to take the method of Hayata and add the peak wavelength of 254 nm of Harrison, so as to allow for more accurate inspection of the shellfish.

Hayata et al. further does not disclose the image is taken by a CCD camera. Tessier et al. does disclose the image is taken by a CCD camera – see for example columns 10-15. Therefore it would have been obvious to one of ordinary skill in the art to take the method of detecting shellfish with unstripped shell of Hayata et al. and add the image taken by a CCD camera, so as to make the method more effective and accurate in that the light can be accurately read with an image being quickly produced.

Referring to claim 5, Hayata et al. discloses an apparatus for detecting and removing unstripped residual shell left on shellfish, the apparatus comprising a means – 2,4 for irradiating light of specific wave-range onto stripped shellfish after finishing the shell-stripping work on the shellfish, detection means – 8,10 for detecting a fluorescent light emitted from the shellfish, a means – 10,14 for determining if there is left a residual shell of the shellfish on the stripped shellfish on the basis of information obtained from the detection means, means – at 16,18 for removing any residual shell on the basis of information from the determining means – see for example figures 1-14 and pages 1-6.

Hayata does not disclose the peak wavelength is 254 nm. Harrison does disclose the peak wavelength is 254 nm – see for example column 2. Therefore it would have been obvious to one of ordinary skill in the art to take the method of Hayata and add the peak wavelength of 254 nm of Harrison, so as to allow for more accurate inspection of the shellfish.

Hayata et al. further does not disclose the image is taken by a CCD camera. Tessier et al. does disclose the image is taken by a CCD camera – see for example columns 10-15. Therefore it would have been obvious to one of ordinary skill in the art to take the method of detecting shellfish with unstripped shell of Hayata et al. and add the image taken by a CCD camera, so as to make the method more effective and accurate in that the light can be accurately read with an image being quickly produced.

Response to Arguments

4. Regarding claims 1-2 and 6, the Hayata et al. '241 reference does disclose using a specific wavelength in that a x-ray device operates only at certain wavelengths and it is inherent that a wavelength of 254 nm is in the range of wavelengths used by a x-ray device.

Regarding claims 1 and 5, in response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the teaching, suggestion or motivation to combine

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the teachings of the Hayata et al. '241 and the Tessier et al. references is found in the knowledge

generally available to one of ordinary skill in the art. The Tessier et al. reference discloses

irradiating a piece of meat to locate a hard non-edible substance such as a bone on or in the meat

and the Hayata et al. '241 reference discloses irradiating a piece of meat to located a hard non-

edible substance such as a shell on the piece of meat and therefore since both the device of

Tessier and Hayata performs the same function the references are combinable to make the claims

obvious as stated above in paragraph 3 of this office action.

Conclusion

5. Any inquiry concerning this communication from the examiner should be directed to

David Parsley whose telephone number is (703) 306-0552. The examiner can normally be

reached on Monday-Friday from 7:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Poon, can be reached at (703) 308-2574.

regunio day center 22.00

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